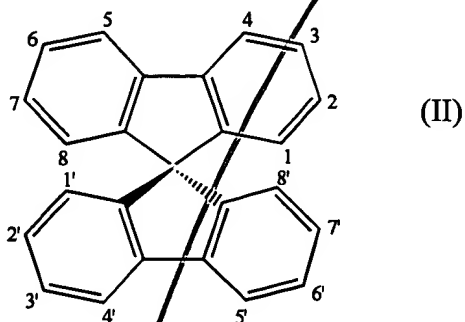
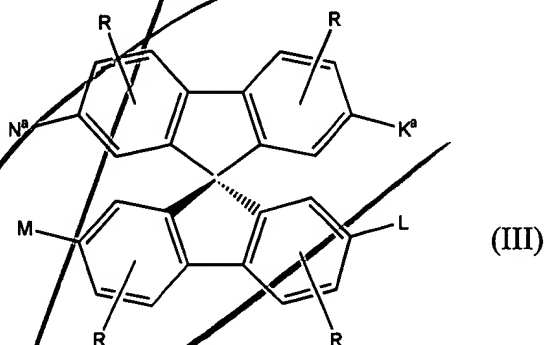


6. The laser of claim 5, wherein said spiro compound is a spirobifluorene of formula (II)



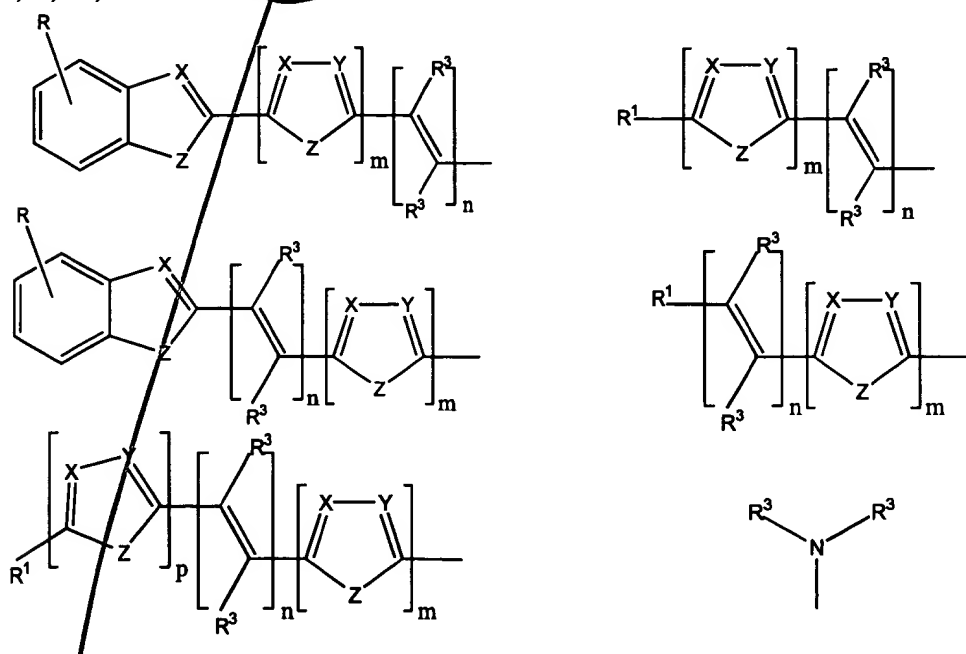
where the benzo groups can be substituted and/or fused independently of one another.

7. The laser of claim 5, wherein said spiro compound is a spirobifluorene derivative of formula (III)



wherein:

K^a , L, M, N^a are identical or different and are



R is identical or different and has the same meaning as K^a , L, M, N^a or is H, a linear or branched alkyl, alkoxy or ester group having from 1 to 22 carbon atoms, -CN, -NO₂, -NR²R³, -Ar or -O-Ar;

Ar is phenyl, biphenyl, 1-naphthyl, 2-naphthyl, 2-thienyl, or 2-furyl, with each optionally substituted with one or two radicals R;

m, n, p are 0, 1, 2 or 3;

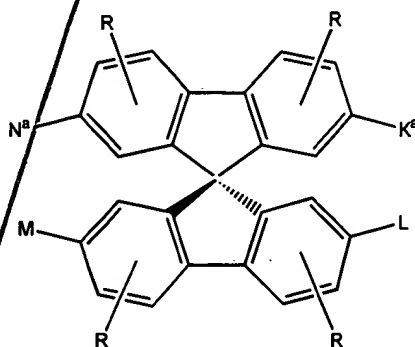
X, Y are identical or different and are CR or nitrogen;

Z is -O-, -S-, -NR¹-, -CR¹R⁴-, -CH=CH-, or -CH=N-;

R¹, R⁴ are identical or different and have the same meaning as R; and

R², R³ are identical or different and are H, a linear or branched alkyl group having from 1 to 22 carbon atoms, -Ar, or 3-methylphenyl.

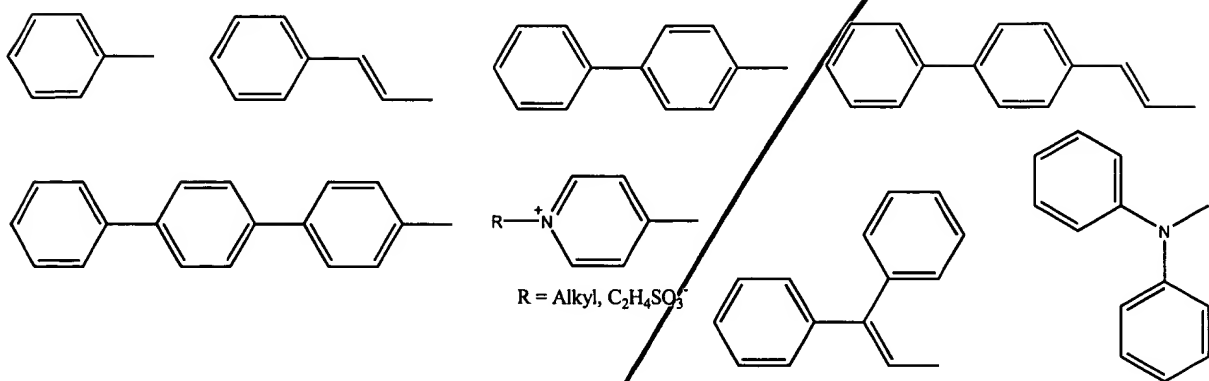
8. The laser of claim 5, wherein said spiro compound is a spirobifluorene compound selected from the group consisting of the spirobifluorene compounds of the formula (IIIa) to (IIIg), wherein formula (III) is:



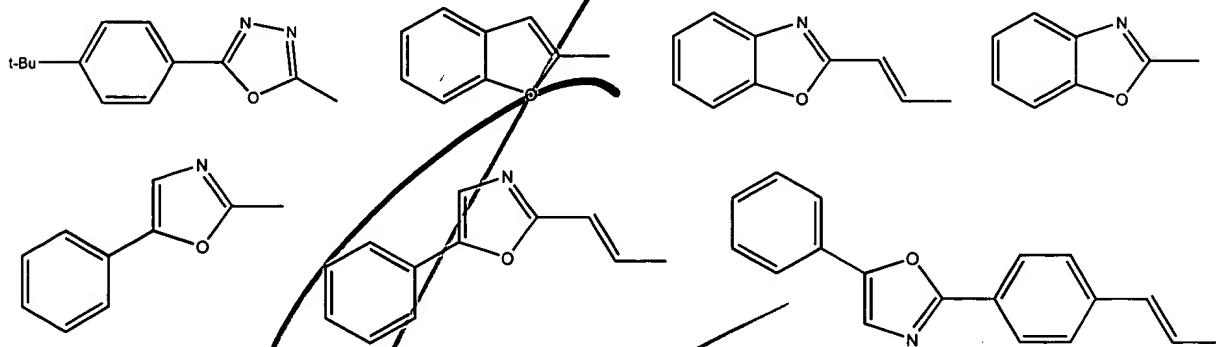
and the spirobifluorene compounds (IIIa to IIIg) are derivatives of formula (III) as follows:

IIIa) $K^a = L = M = N^a$ and is selected from the group consisting of:

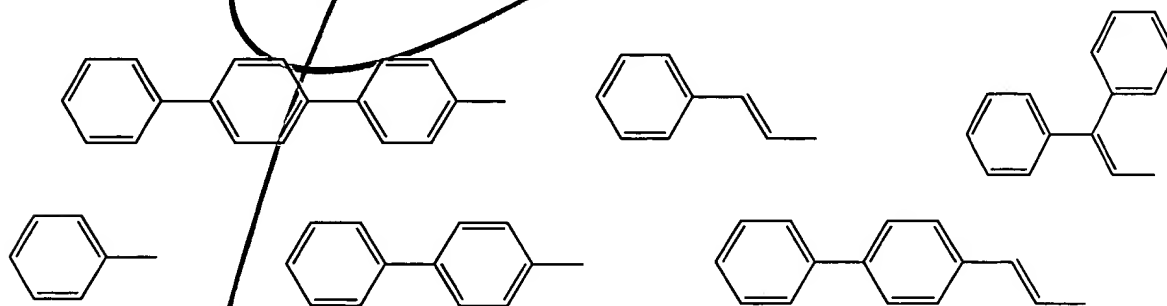
IIIc) $K^a = M$ and is selected from the group consisting of:



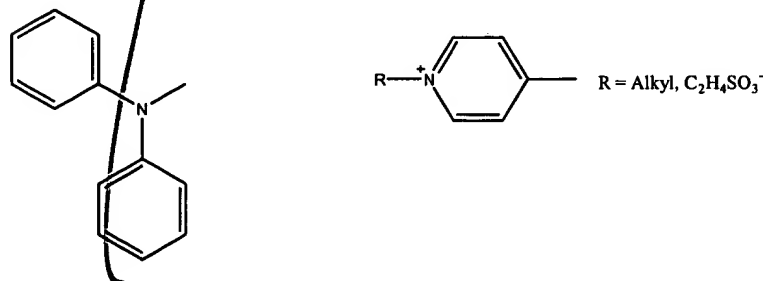
and $N^a = L$ and is selected from the group consisting of:



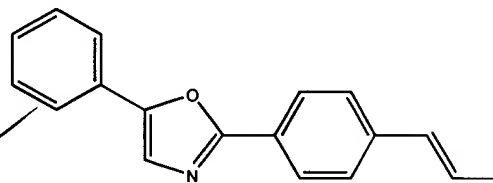
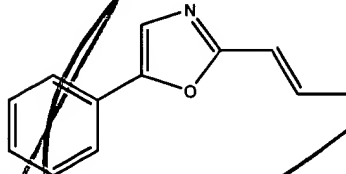
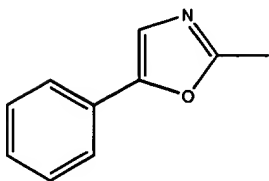
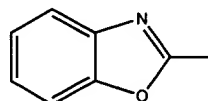
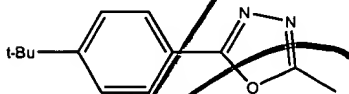
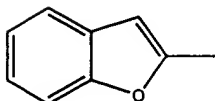
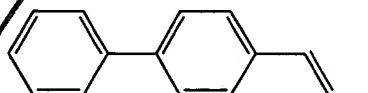
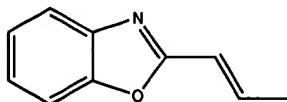
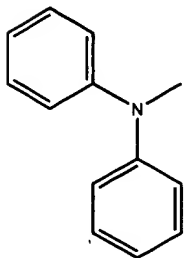
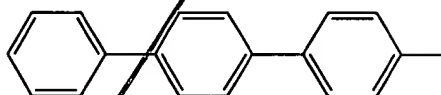
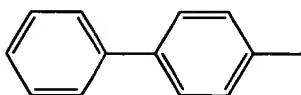
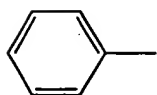
IIId) $K^a = M$ and is selected from the group consisting of:



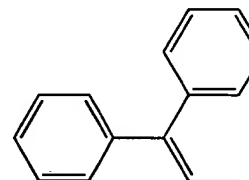
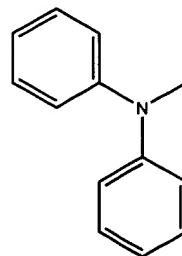
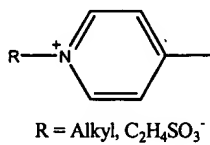
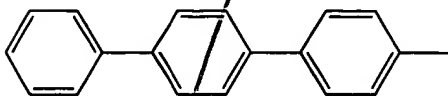
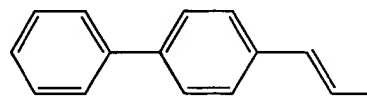
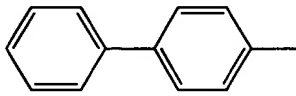
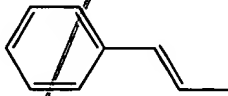
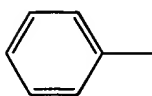
and $N^a = L$ and is selected from the group consisting of:



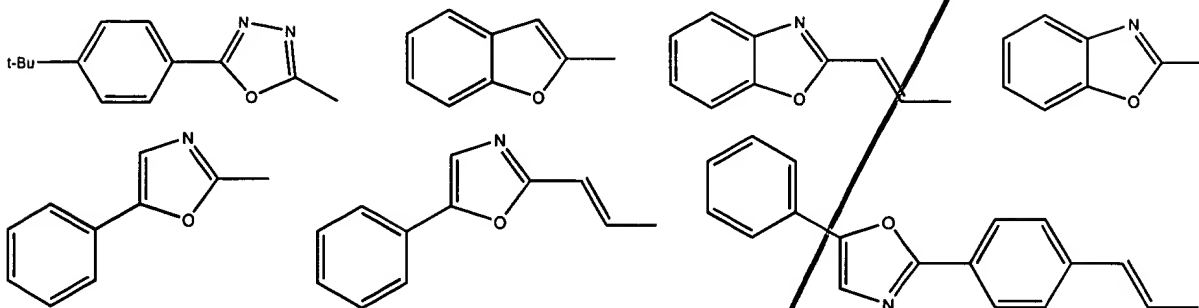
IIIe) $K^a = L = H$ and $M = N^a$ and is selected from the group consisting of:



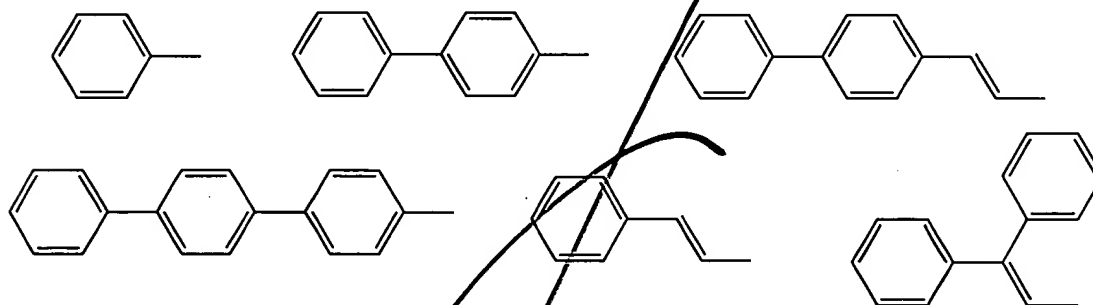
III f) $K^a = L$ and is selected from the group consisting of:



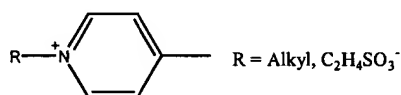
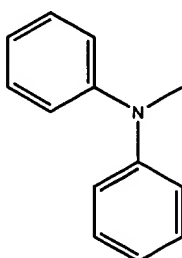
and $M = N^a$ and is selected from the group consisting of:



IIIg) $K^a = L$ and is selected from the group consisting of:

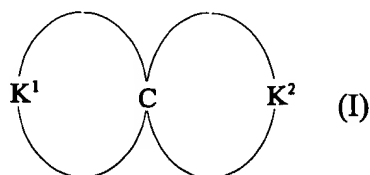


and $M = N^a$ and is selected from the group consisting of:



9. A laser system comprising:

- (a) an optical pumping device selected from the group consisting of a flash lamp and a laser;
- (b) a solid spiro compound of formula (I)

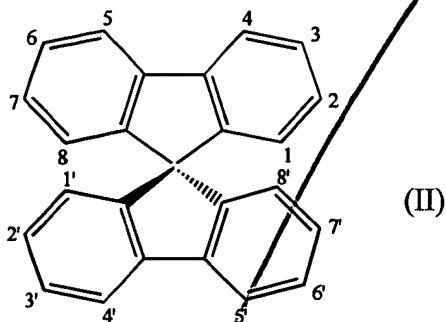


where K^1 and K^2 are, independently of one another, conjugated systems;

wherein excitation of the solid spiro compound is achieved by optical excitation with the

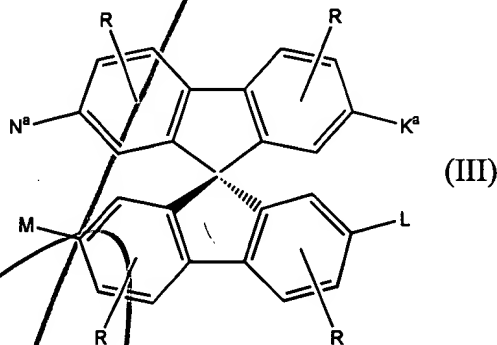
optical pumping device.

10. The laser system of claim 9, wherein said spiro compound is a spirobifluorene of formula (II)



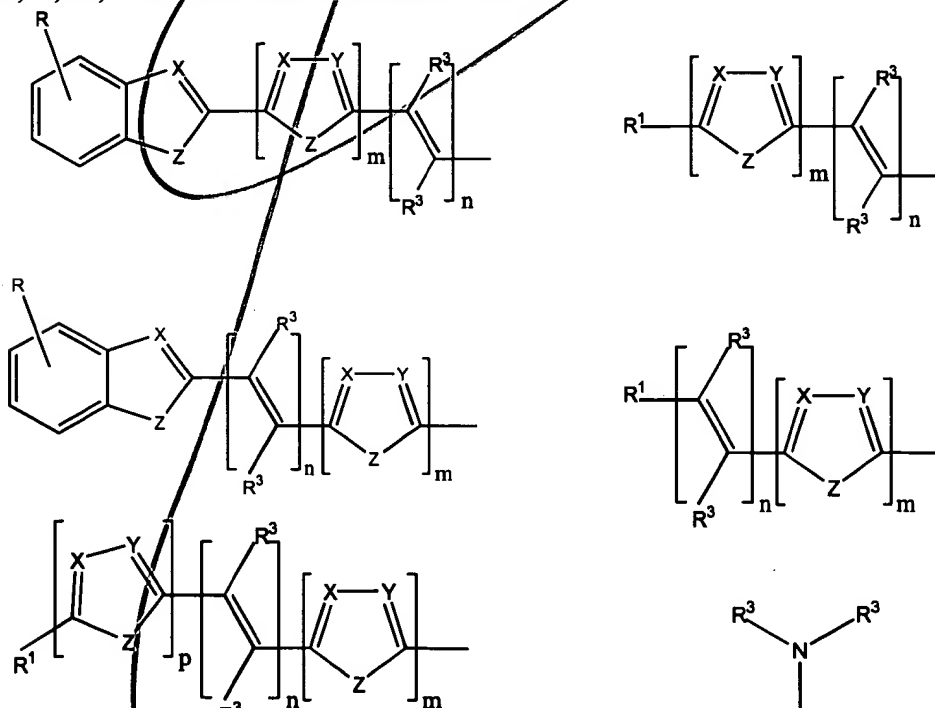
wherein the benzo groups can be substituted and/or fused independently of one another.

11. The laser system of claim 9, wherein said spiro compound is a spirobifluorene derivative of formula (III)



wherein:

K^a, L, M, N^a are identical or different and are



R is identical or different and has the same meaning as K^a, L, M, N^a or is H, a linear

or branched alkyl, alkoxy or ester group having from 1 to 22 carbon atoms, -CN, -NO₂, -NR²R³, -Ar or -O-Ar;

Ar is phenyl, biphenyl, 1-naphthyl, 2-naphthyl, 2-thienyl, or 2-furyl, with each optionally substituted with one or two radicals R;

m, n, p are 0, 1, 2 or 3;

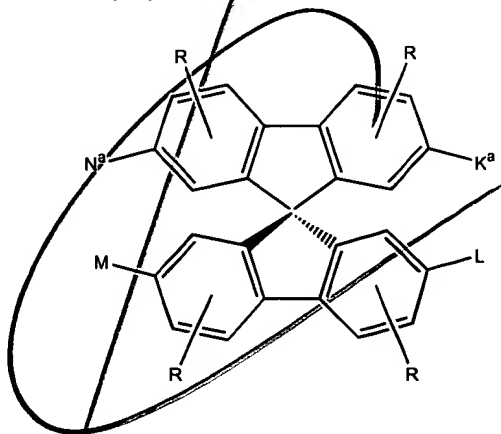
X, Y are identical or different and are CR or nitrogen;

Z is -O-, -S-, -NR¹-, -CR¹R⁴-, -CH=CH-, or -CH=N-;

R¹, R⁴ are identical or different and have the same meaning as R; and

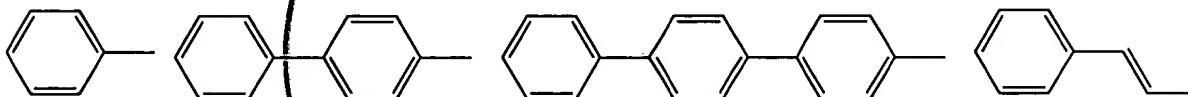
R², R³ are identical or different and are H, a linear or branched alkyl group having from 1 to 22 carbon atoms, -Ar, or 3-methylphenyl.

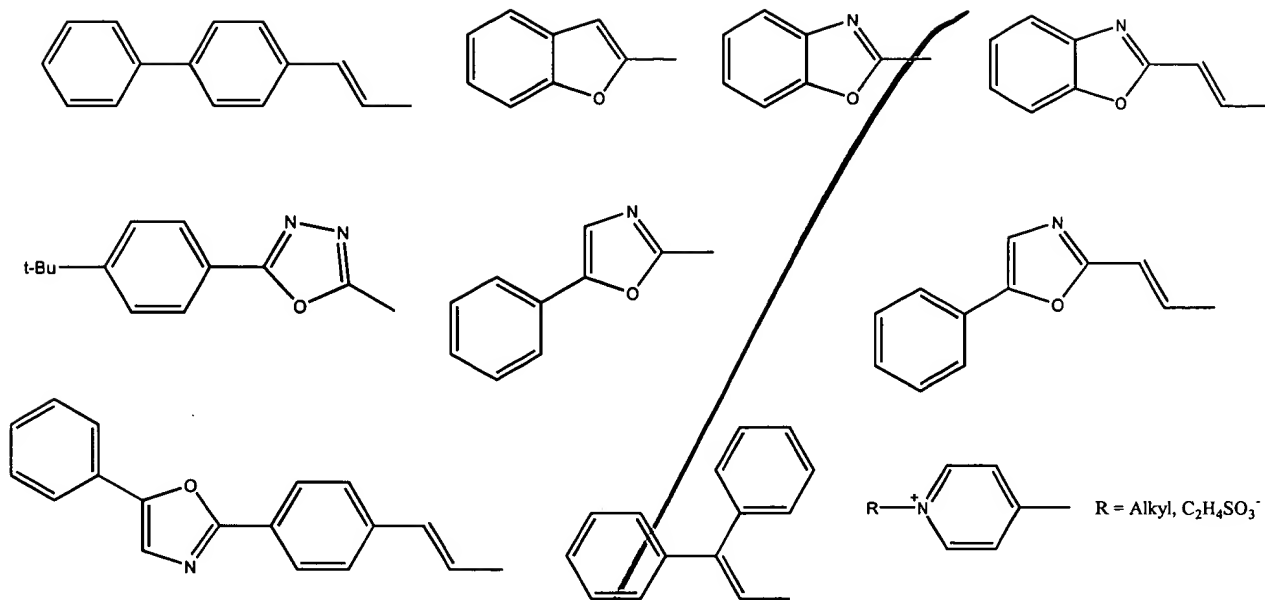
12. The laser system of claim 9, wherein said spiro compound is a spirobifluorene compound selected from the group consisting of the spirobifluorene compounds of the formula (IIIa) to (IIIg), wherein formula (III) is:



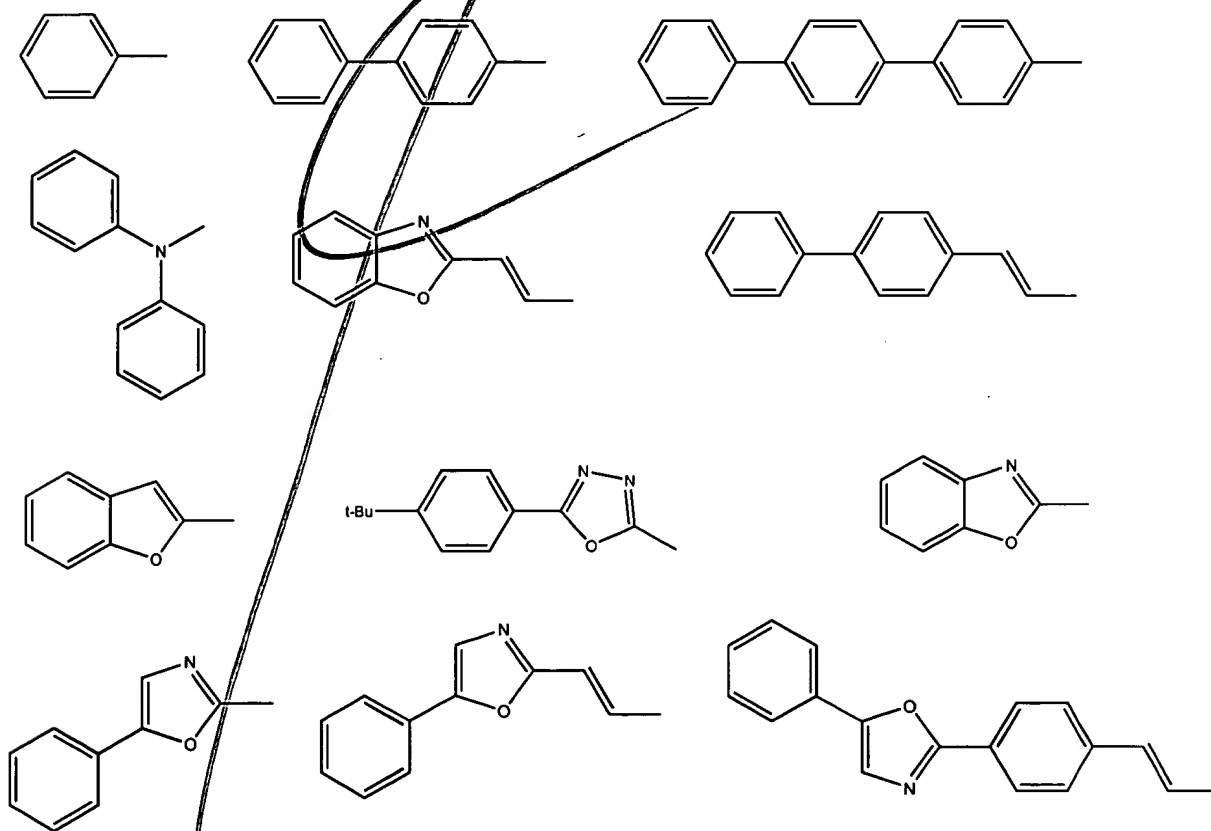
and the spirobifluorene compounds (IIIa to IIIg) are derivatives of formula (III) as follows:

IIIa) K^a = L = M = N^a and is selected from the group consisting of:

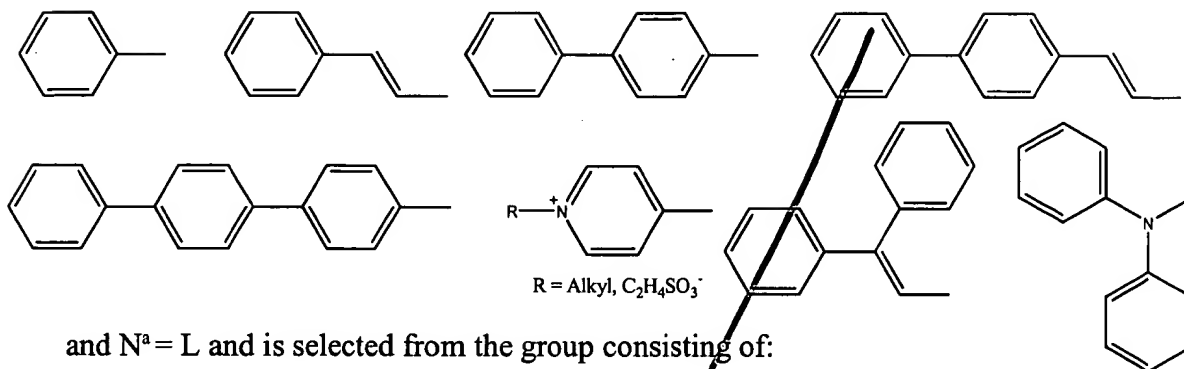




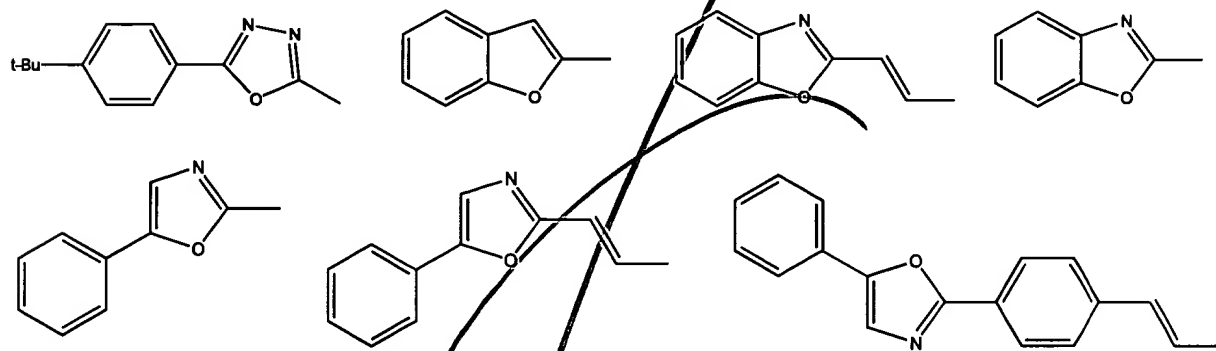
IIIb) $K^a = M = H$ and $N^a = L$ and is selected from the group consisting of:



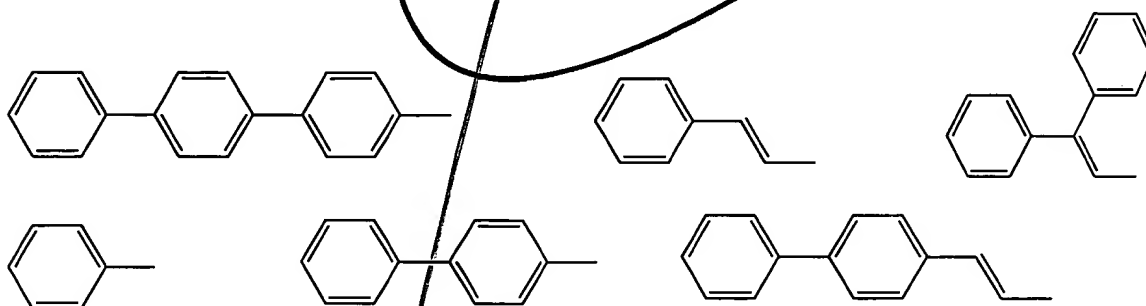
IIIc) $K^a = M$ and is selected from the group consisting of:



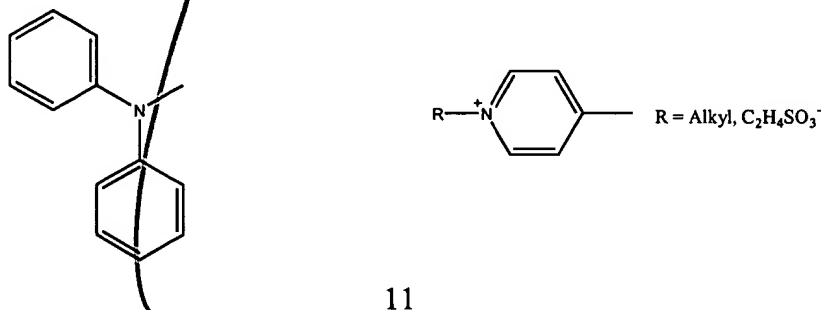
and $N^a = L$ and is selected from the group consisting of:



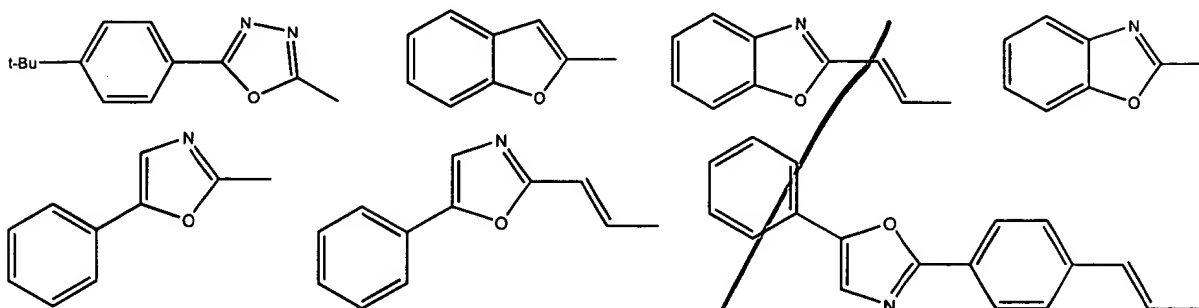
IIId) $K^a = M$ and is selected from the group consisting of:



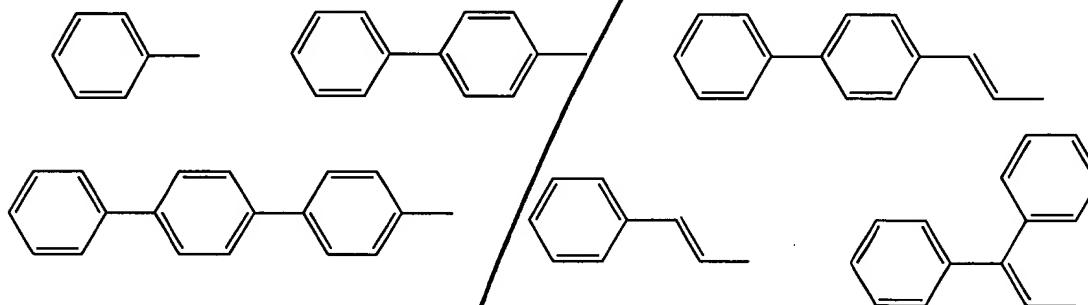
and $N^a = L$ and is selected from the group consisting of:



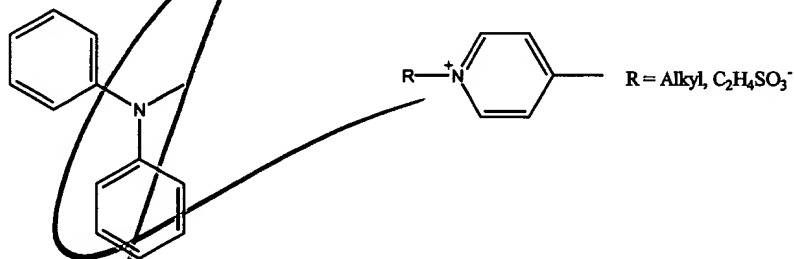
and $M = N^a$ and is selected from the group consisting of:



IIIg) $K^a = L$ and is selected from the group consisting of:

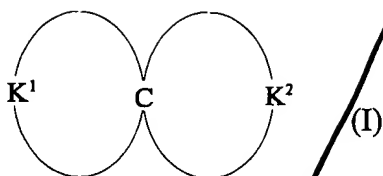


and $M = N^a$ and is selected from the group consisting of:



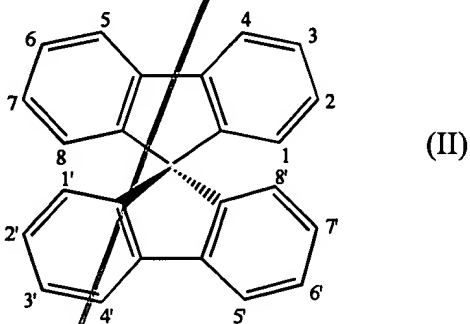
13. The laser system of claim 9, wherein the optical pumping device is a laser.
14. The laser system of claim 10, wherein the optical pumping device is a laser.
15. The laser system of claim 11, wherein the optical pumping device is a laser.
16. The laser system of claim 12, wherein the optical pumping device is a laser.
17. A method for emitting a narrow band width of optical light comprising exciting a solid

spiro compound of formula (I)



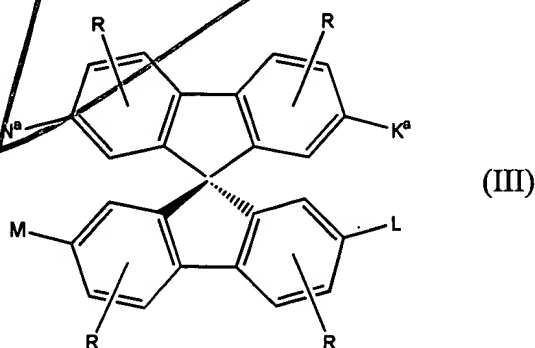
where K¹ and K² are, independently of one another, conjugated systems with a laser.

18. The method of claim 17, wherein said solid spiro compound is a spirobifluorene of formula (II)



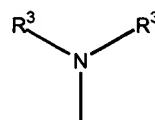
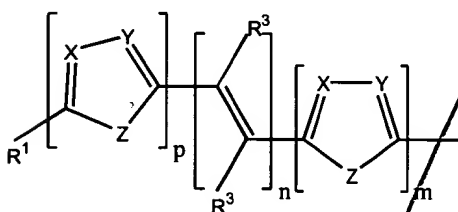
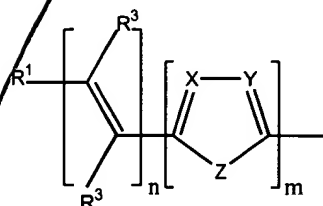
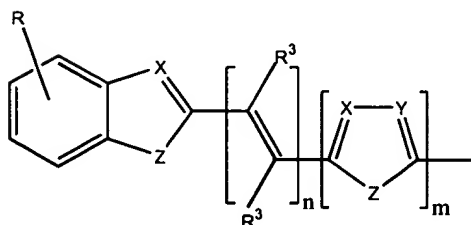
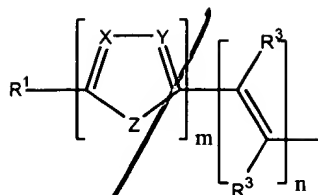
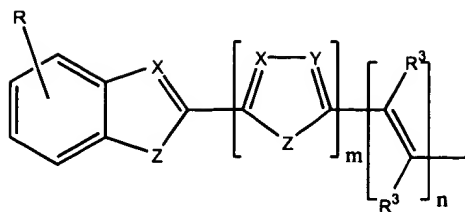
where the benzo groups can be substituted and/or fused independently of one another.

19. The method of claim 17, wherein said spiro compound is a spirobifluorene derivative of formula (III)



wherein:

K^a, L, M, N^a are identical or different and are



R is identical or different and has the same meaning as K^a, L, M, N^a or is H, a linear or branched alkyl, alkoxy or ester group having from 1 to 22 carbon atoms, -CN, -NO₂, -NR²R³, -Ar or -O-Ar;

Ar is phenyl, biphenyl, 1-naphthyl, 2-naphthyl, 2-thienyl, or 2-furyl, with each optionally substituted with one or two radicals R;

m, n, p are 0, 1, 2 or 3;

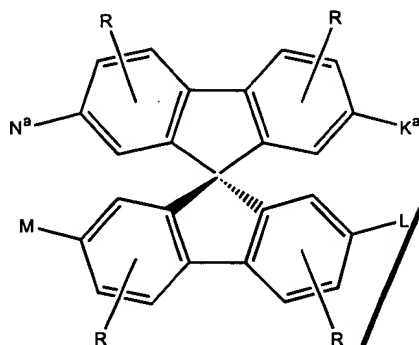
X, Y are identical or different and are CR or nitrogen;

Z is -O-, -S-, -NR¹-, -CR¹R⁴-, -CH=CH-, or -CH=N-;

R¹, R⁴ are identical or different and have the same meaning as R; and

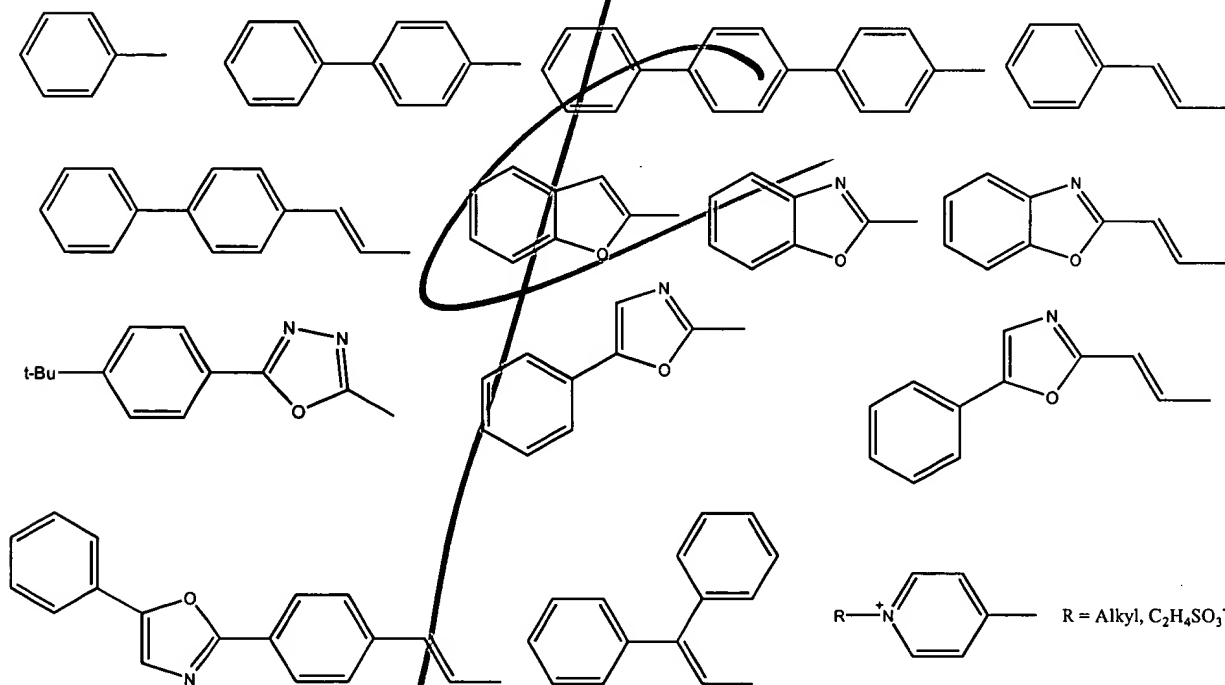
R², R³ are identical or different and are H; a linear or branched alkyl group having from 1 to 22 carbon atoms, -Ar, or 3-methylphenyl.

20. The method of claim 17, wherein said spiro compound is a spirobifluorene compound selected from the group consisting of the spirobifluorene compounds of the formula (IIIa) to (IIIg), wherein formula (III) is:

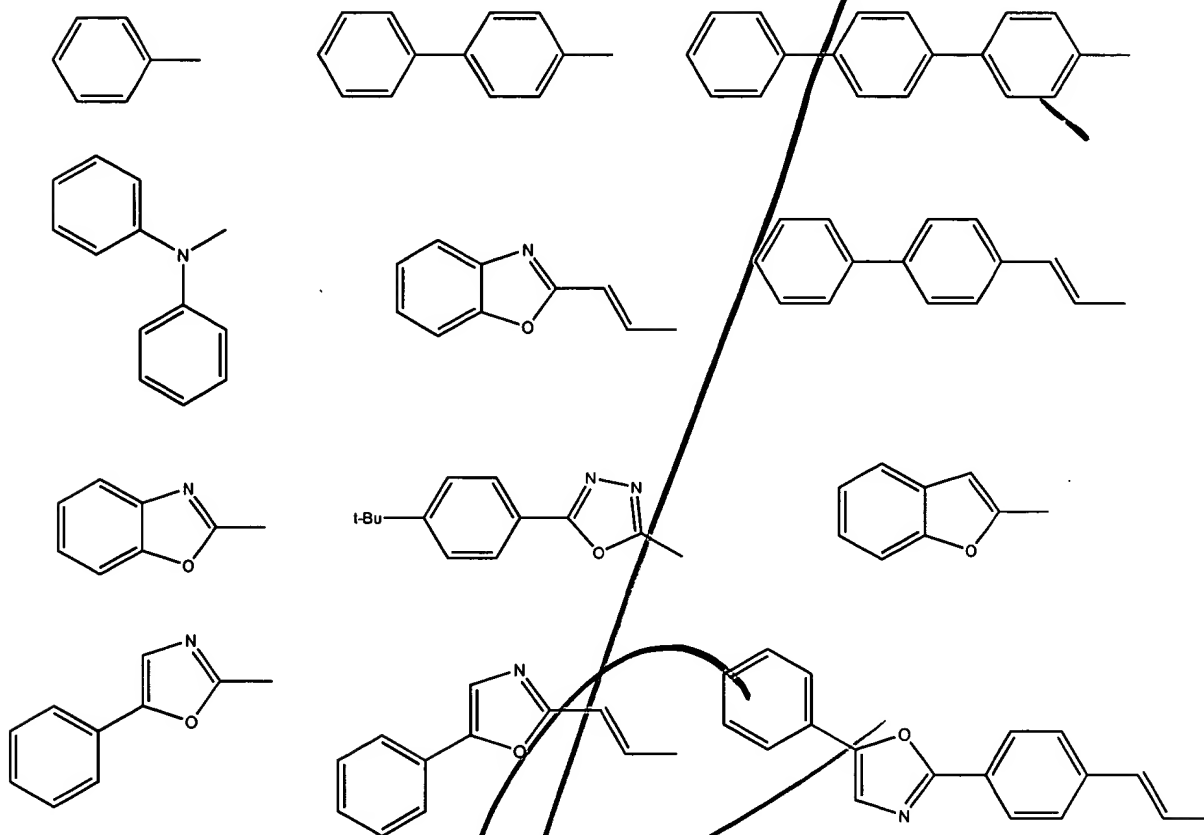


and the spirobifluorene compounds (IIIa to IIIg) are derivatives of formula (III) as follows:

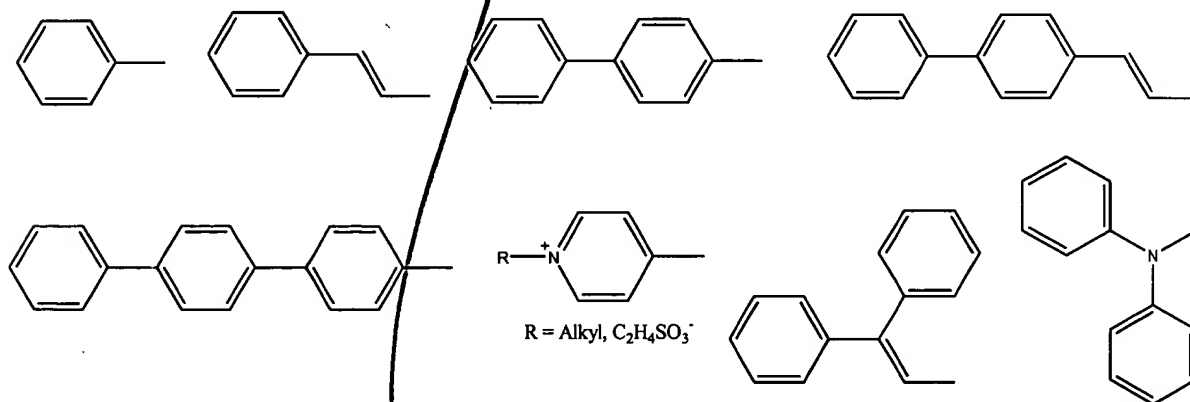
IIIa) $K^a = L = M = N^a$ and is selected from the group consisting of:



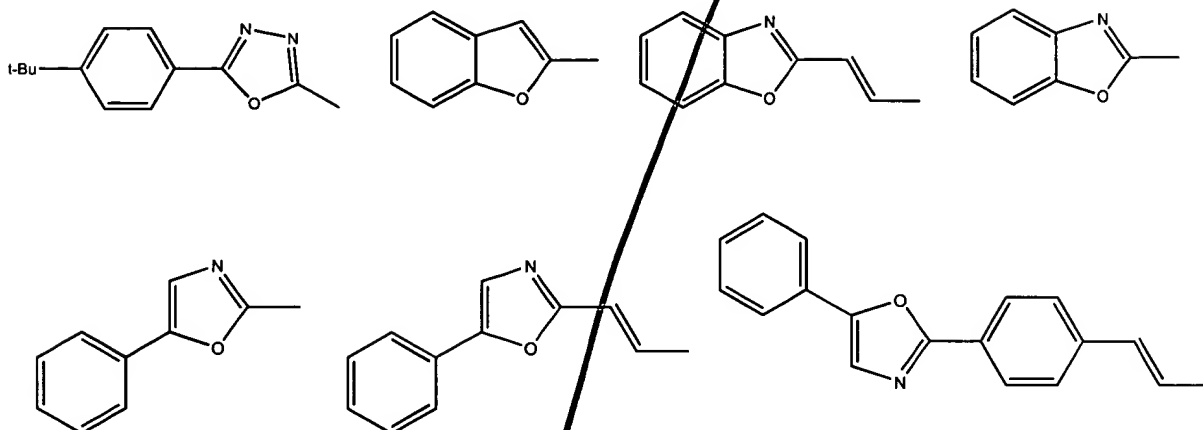
IIIb) $K^a = M = H$ and $N^a = L$ and is selected from the group consisting of:



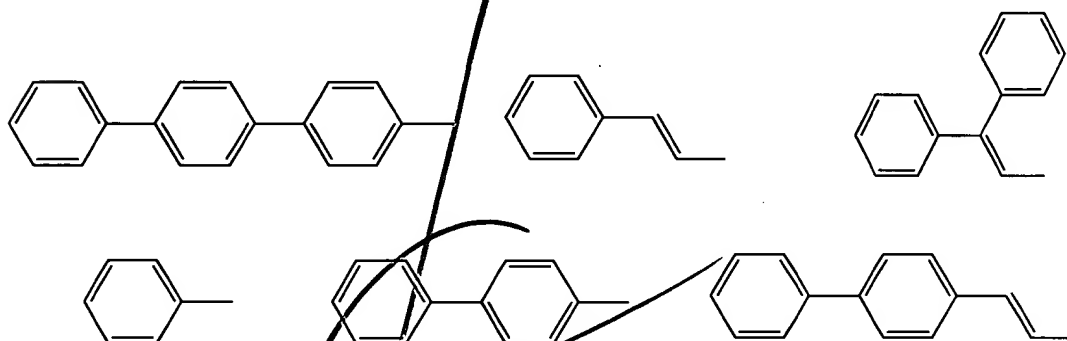
IIIc) $K^a = M$ and is selected from the group consisting of:



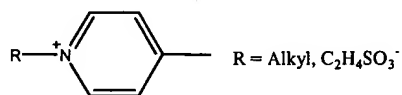
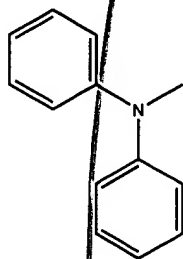
and $N^a = L$ and is selected from the group consisting of:



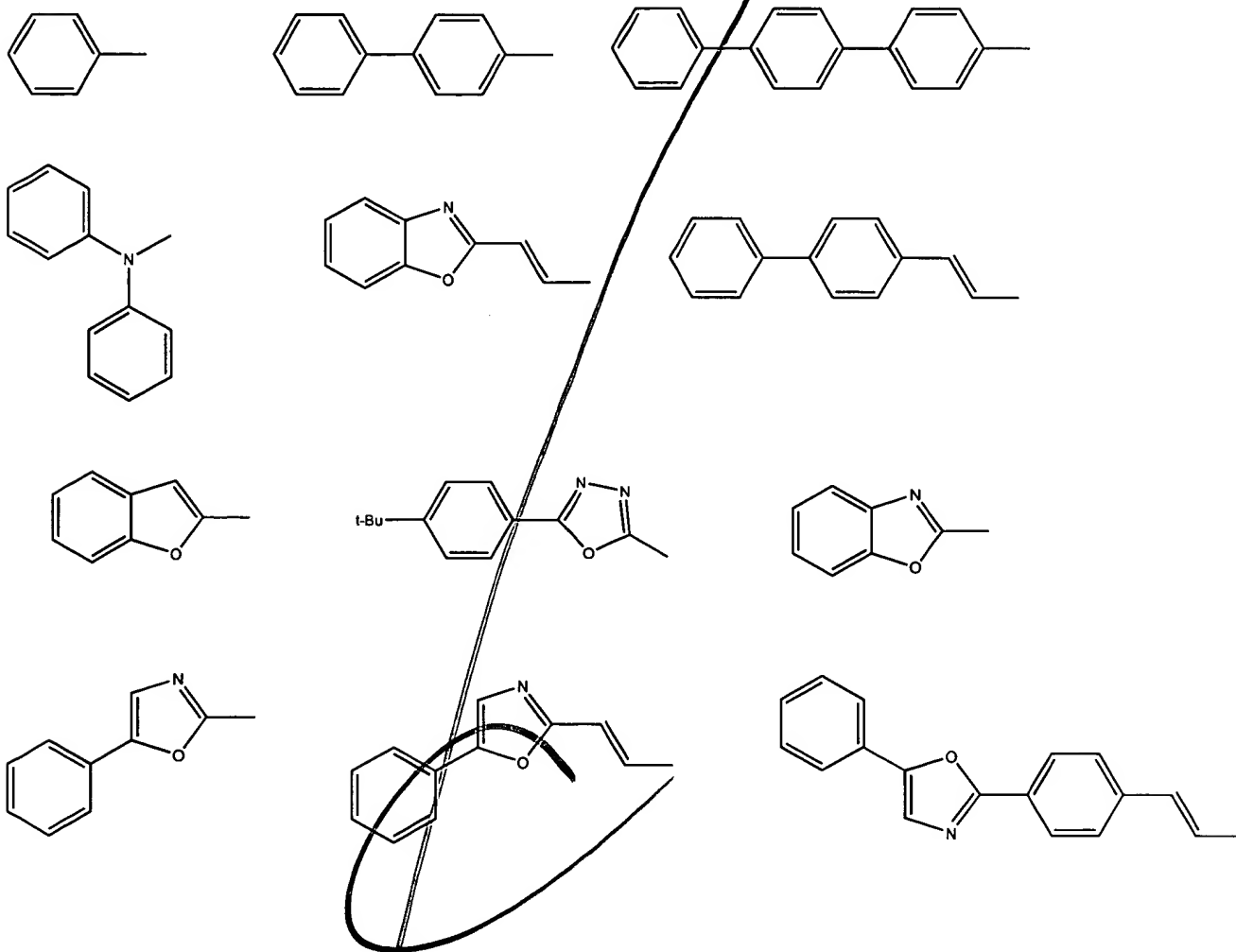
IIIId) $K^a = M$ and is selected from the group consisting of:



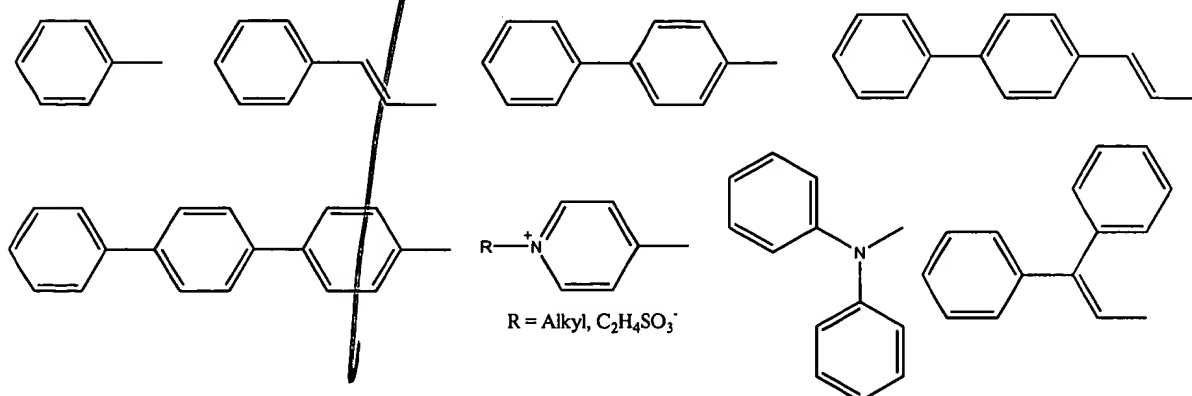
and $N^a = L$ and is selected from the group consisting of:



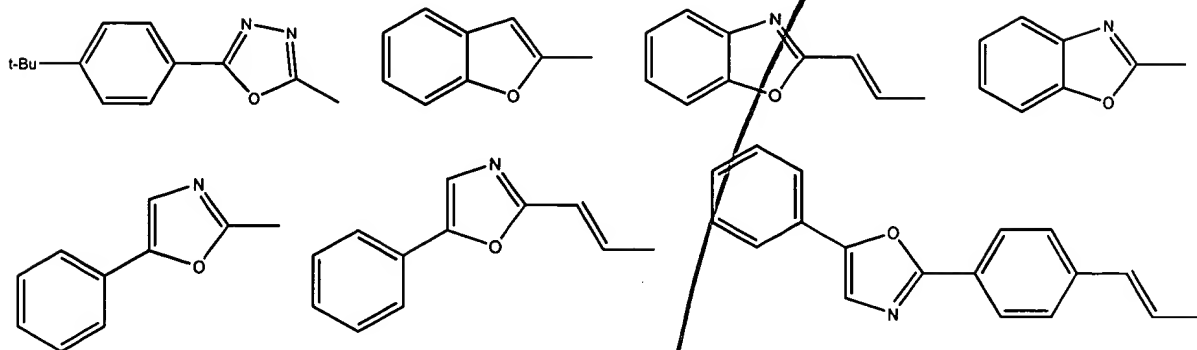
IIIe) $K^a = L = H$ and $M = N^a$ and is selected from the group consisting of:



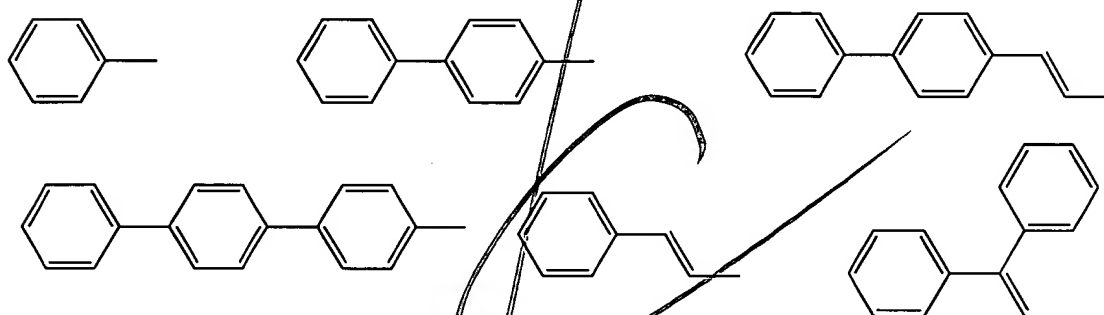
III f) $K^a = L$ and is selected from the group consisting of:



and $M = N^a$ and is selected from the group consisting of:



IIIg) $K^a = L$ and is selected from the group consisting of:



and $M = N^a$ and is selected from the group consisting of:

